

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 07/02/02

Date Received: 06/20/02

Project: Metro Self Monitor, PO# M68229

Date Extracted: 06/24/02

Date Analyzed: 06/25/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M68229 206210-01	0.17	0.18	0.14	0.07
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 07/02/02

Date Received: 06/20/02

Project: Metro Self Monitor, PO# M68229

### QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 206210-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.17	0.16	6	0-20
Copper	mg/L (ppm)	0.18	0.17	6	0-20
Nickel	mg/L (ppm)	0.14	0.11	24 a	0-20
Zinc	mg/L (ppm)	0.07	<0.05	nm	0-20

Laboratory Code: 206210-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.17	87	80-120
Copper	mg/L (ppm)	2	0.18	87	80-120
Nickel	mg/L (ppm)	4	0.14	87	80-120
Zinc	mg/L (ppm)	2	0.07	89	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	97	95	80-120	2
Copper	mg/L (ppm)	2	98	96	80-120	2
Nickel	mg/L (ppm)	4	97	94	80-120	3
Zinc	mg/L (ppm)	2	98	95	80-120	3

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

July 2, 2002

**DUPLICATE COPY**

**INVOICE # 02ACU0702-1**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M68229 - Results of testing requested by  
Gerry Thompson for material submitted on June 20, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due ..... \$ 80.00

FEDERAL TAX ID # (b) (6)

206210

## SAMPLE CHAIN OF CUSTODY

ME 6-20-02 AT

AKC-0009183

Send Report To GERARD Thompson  
 Company Alaska Copper works  
 Address 628 S. HANSON ST  
 City, State, ZIP SEATTLE WA 98134  
 Phone # 206-382-8379 Fax # 206-382-4309

SAMPLERS (Signature) <u>Gerard Thompson</u>	
PROJECT NAME/NO. <u>METRO SECS monitor</u>	PO # <u>M68229</u>
REMARKS	

Page # \_\_\_\_\_ of \_\_\_\_\_

TURNAROUND TIME  
☐ Standard (2 Weeks)  
☐ RUSH \_\_\_\_\_  
 Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
☐ Dispose after 30 days  
☐ Return samples  
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED											Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OK, Aug 1, 2002					
M68229	81	6/20/02	11:30	A20	1												

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Gerard Thompson</u>	<u>Gerard Thompson</u>	<u>AEN</u>	<u>6/20/02</u>	<u>1:34pm</u>
Received by: <u>Michael E. Dahl</u>	<u>Michael E. Dahl</u>	<u>Fikre</u>	<u>6/20/02</u>	<u>1:50pm</u>
Relinquished by:				
Received by:				



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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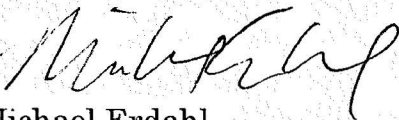
Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 20, 2002 from your Metro Self Monitor, PO# M68229 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,



Michael Erdahl  
Project Manager

Enclosures  
ACU0702R.DOC